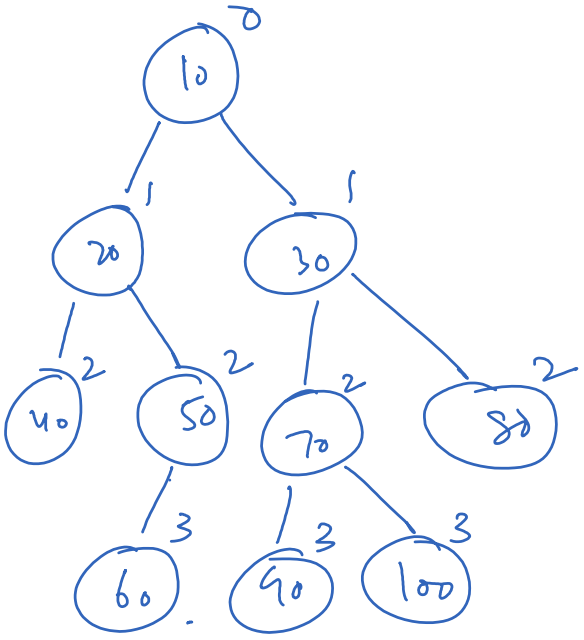
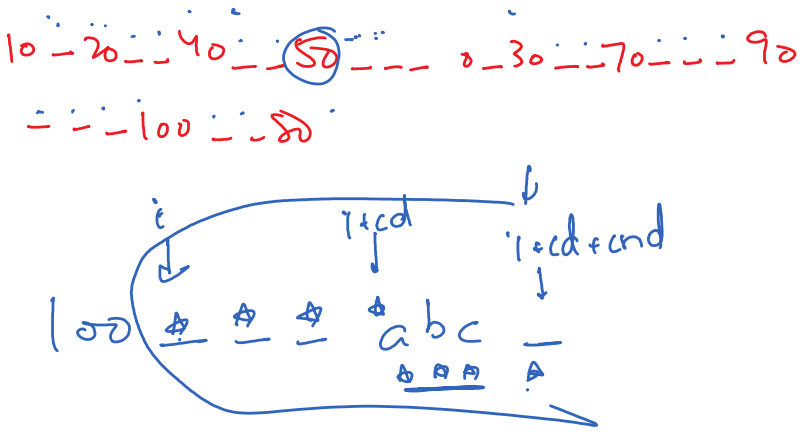
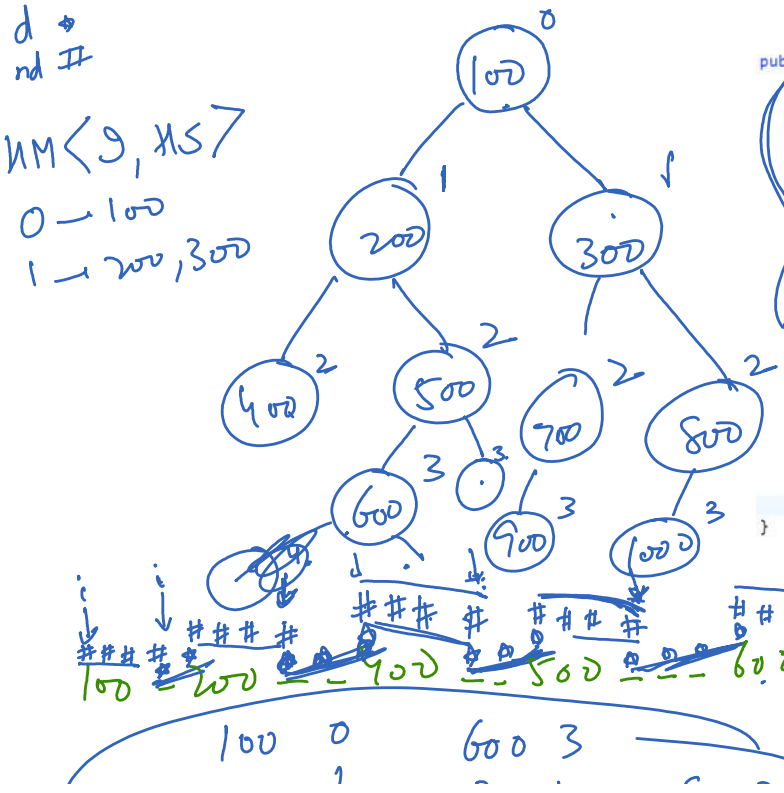
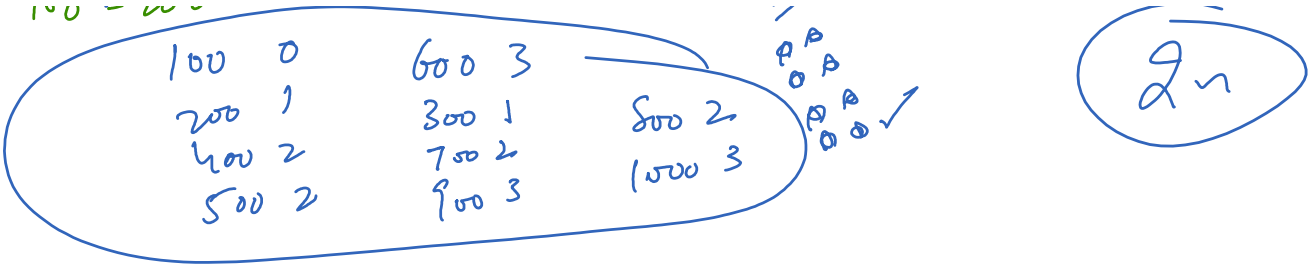
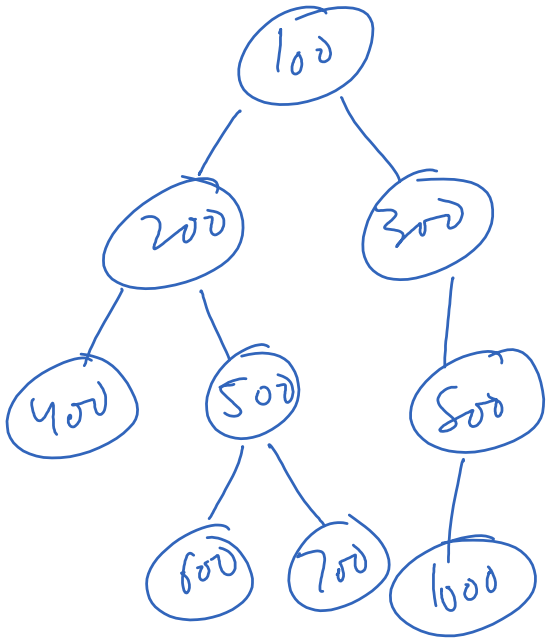


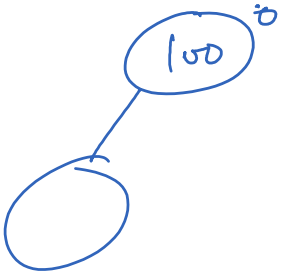




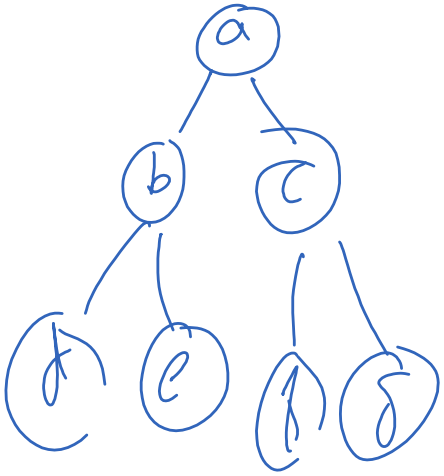

```
public TreeNode helper(String str, int depth){
    int d = 0;
    while(i + d < str.length() && str.charAt(i + d) == '-'){
        d++;
    }

    if(d != depth){
        return null;
    }

    int nd = 0;
    while(i + d + nd < str.length() && str.charAt(i + d + nd) != '-'){
        nd++;
    }

    int val = Integer.parseInt(str.substring(i + d, i + d + nd));
    i = i + d + nd;

    TreeNode node = new TreeNode(val);
    node.left = helper(str, depth + 1);
    node.right = helper(str, depth + 1);

    return node;
}
```



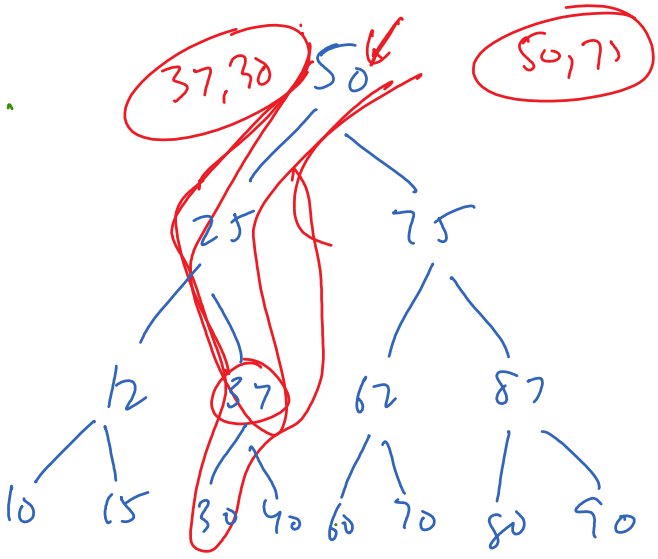




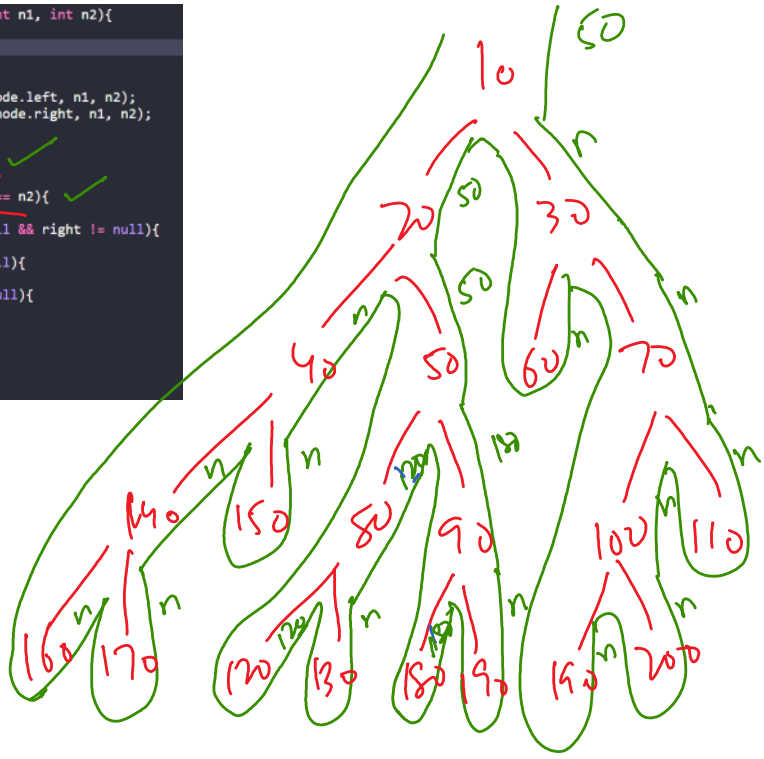
100 - 200 - 400 - 500 - 600 - 700 - 300 - 800 - 1000



O(s.l)



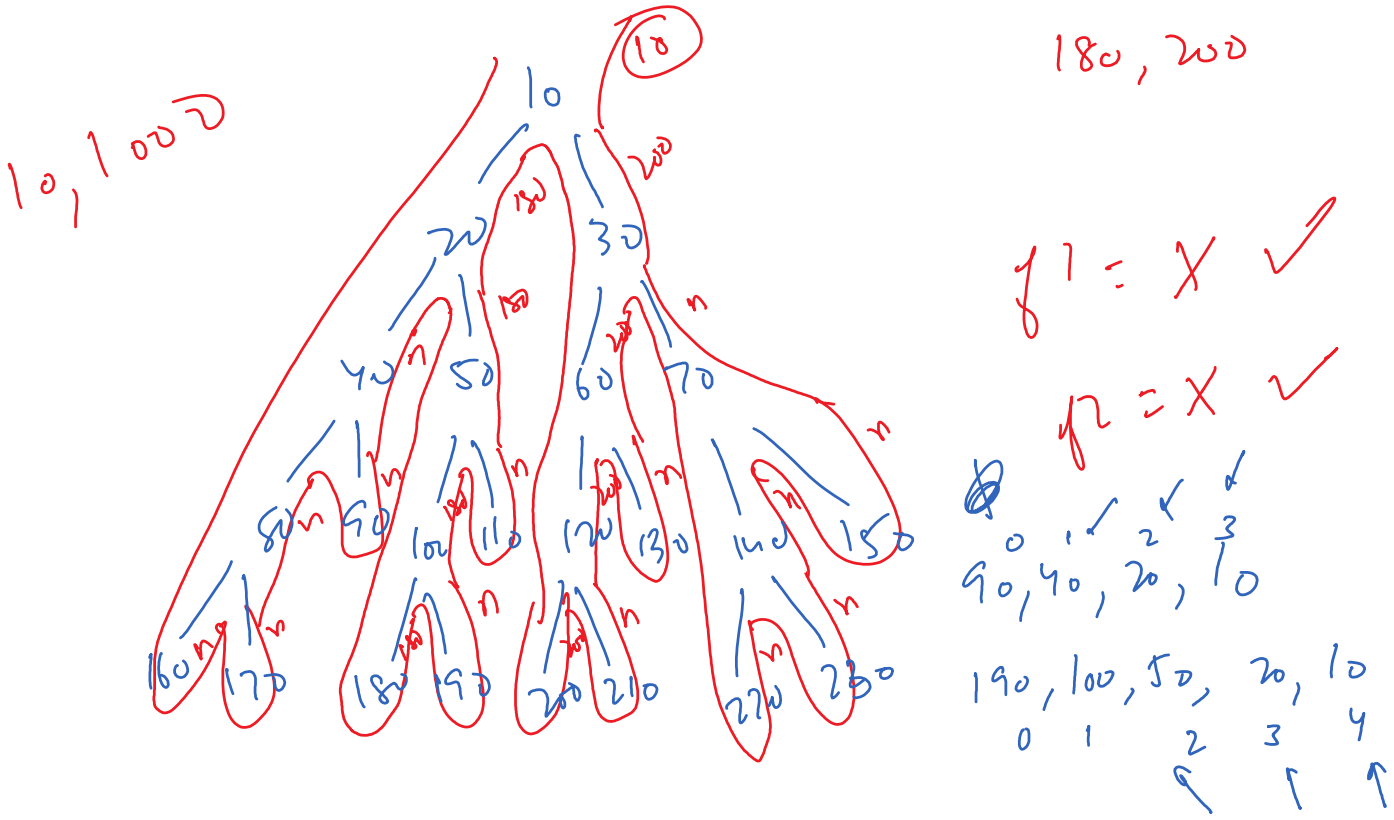

```
Node helper(Node node, int n1, int n2){
    if(node == null){
        return null;
    }

    Node left = helper(node.left, n1, n2);
    Node right = helper(node.right, n1, n2);

    if(node.data == n1){
        return node;
    } else if(node.data == n2){
        return node;
    } else if(left != null && right != null){
        return node;
    } else if(left != null){
        return left;
    } else if(right != null){
        return right;
    } else {
        return null;
    }
}
```

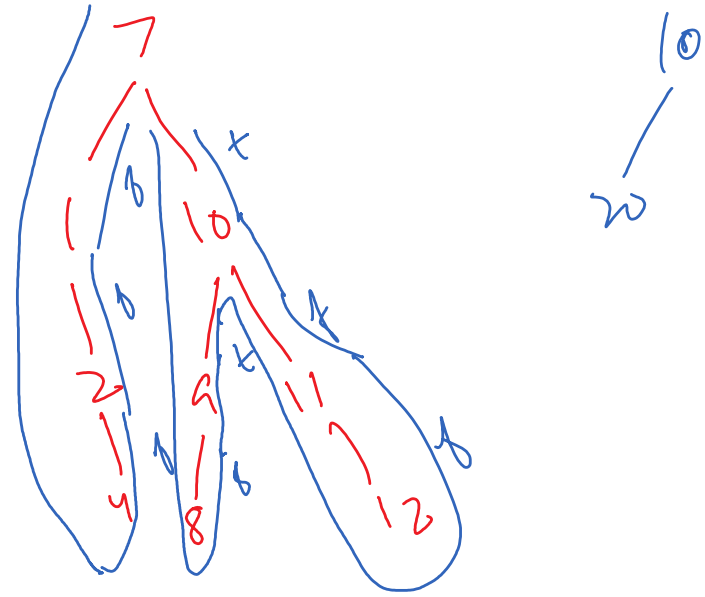


LCA in a BT

11:14 to 11:24

50, 1000


10, 100
180, 200
f1 = X
f2 = X
90, 40, 20, 10
190, 100, 50, 20, 10


10
20